

Practical Geometry

Question 1.

How many lines can draw from a given point.

- (a) 1
- (b) 2
- (c) Infinite
- (d) None of these

Answer: (c) Infinite

Question 2.

How many parallel lines can draw from a outside point of a given line?

- (a) 1
- (b) 2
- (c) Infinite
- (d) None of these

Answer: (a) 1

Question 3.

Which among the following is used to construct a triangle?

- (a) The lengths of the three sides.
- (b) The perimeter of the triangle.
- (c) The measures of three angles.
- (d) The names of three vertices.

Answer: (a) The lengths of the three sides.

Question 4.

How many parallel lines can be drawn passing through a point, not on the given line?

- (a) 2
- (b) 1

- (c) 3
- (d) 0

Answer: (b) 1

Question 5.

In which of the following cases is the construction of a triangle not possible?

- (a) Measures of 3 sides are given.
- (b) Measures of 2 sides and an included angle are given.
- (c) Measures of 2 angles and a side are given.
- (d) Measures of 3 angles are given.

Answer: (d) Measures of 3 angles are given.

Ouestion 6.

dentify the true statement.

- (a) A triangle with 3 equal sides is isosceles.
- (b) A triangle with a 110o angle is right angled.
- (c) A triangle with 3 acute angles is acute angled.
- (d) A triangle with 2 equal sides is equilateral.

Answer: (c) A triangle with 3 acute angles is acute angled.

Ouestion 7.

A Choose the correct option in which a triangle CANNOT be constructed with the given lengths of sides.

- (a) 3 cm, 4 cm, 5 cm
- (b) 7 cm, 6 cm, 5 cm
- (c) 10 cm, 7 cm, 2 cm
- (d) 12 cm, 8 cm, 6 cm

Answer: (c) 10 cm, 7 cm, 2 cm

Question 8.

Which is the longest side in the triangle ABC right angled at B?

- (a) BC
- (b) AC
- (c) AB
- (d) None of these

Answer: (b) AC
Question 9. ΔPQR is a triangle right-angled at P. If PQ = 3 cm and PR = 4 cm, find QR. (a) 3 cm (b) 7 cm (c) 5 cm (d) 8 cm Answer: (c) 5 cm
Question 10. Which is the longest side in the triangle PQR right angled at P? (a) PR (b) PQ (c) QR (d) None of these Answer: (c) QR
Question 11. The sum of the lengths of any two sides of a triangle is the third side of the triangle. (a) less than (b) doubled (c) greater than (d) half Answer: (c) greater than
Question 12. A/an connect a vertex of a triangle to the mid-point of the opposite side. (a) altitude (b) vertex (c) median (d) None of these Answer: (c) median

Question 13.
In the Pythagoras property, the triangle must be
(a) acute-angled
(b) obtuse-angled
(c) right-angled (d) None of these
(d) None of these
Answer: (c) right-angled
Question 14.
Which is the longest side of a right triangle?
(a) Hypotenuse
(b) Base
(c) Perpendicular
(d) None of these
Answer: (a) Hypotenuse
Question 15. A triangle in which all three sides are of equal lengths is called (a) Equilateral (b) Scalene (c) Isosceles (d) None of these
Answer: (a) Equilateral
Question 16. A triangle can be drawn if the hypotenuse and a in the case of a right-angled triangle. (a) base (b) hypotenuse (c) leg
(d) None of these
Answer: (c) leg
Question 17. Sum of the lengths of any two sides of a triangle is greater than the length of the (a) first side (b) second side

(c) third side (d) none of these Answer: (c) third side	
Question 19. he exterior angle of a triangle is in measure to the sum of interior opposite angles. (a) equal (b) unequal (c) different (d) None of these Answer: (a) equal	
Question 20. ΔABC is right-angled at C. If AC = 5 cm and BC = 12 cm find the length of AB. (a) 17 cm (b) 7 cm (c) 13 cm (d) None of these Answer: (c) 13 cm	
Fill in the blanks: 1. The exterior angle of a triangle is equal in measure to the sum of opposite angles. Answer: Interior	

2. The total measure of the three angles of a triangle is
Answer: 180°
3. Sum of the lengths of any two side of a triangle is than the length of the third side.
Answer: greater
4. In any right angled triangle, the square of the length of hypotenuse is equal to the sum of the of the lengths of the other two sides.
Answer: squares
To construct a triangle of following sets of measurement given.
5 sides.
Answer: three
6. Two sides and the angle them.
Answer: between
7. Two angles and the side them.
Answer: between
8. The hypotenuse and a in the case of a right-angle triangle.
Answer: legs
Below are given the maximum of certain sides and angles of triangles. Identify those can be constructed and these can not he constructed.
Question 1. $\triangle ABC \text{ m} \angle A = 85^{\circ}, \text{m} \angle B = 115, AB = 5 \text{ cm}$
Answer: No

Question 2.

 $\triangle PQR \text{ m} \angle Q = 30, \text{m} \angle R = 60, QR = 4.7\text{cm}$

Answer: Yes

Question 3.

 \triangle ABC m \angle A = 70,m \angle B = 50, AC = 3cm

Answer: Yes

Question 4.

 Δ LMN m \angle L = 60, m \angle N = 120,LM = 5cm

Answer: No

Question 5.

 \triangle ABC BC = 2cm, AB = 4cm, AC = 2cm

Answer: No

Question 6.

 \triangle PQR PQ = 3.5cm, QR = 4cm, PR = 3.5cm

Answer: Yes

Question 7.

 $\Delta XYZ XY = 3cm, YZ = 4cm, XZ = 5cm$

Answer: Yes

Question 8.

 $\Delta DEF DE = 4.5 \text{cm}, EF = 5.5 \text{cm}, DF = 4 \text{cm}$

Answer: Yes